

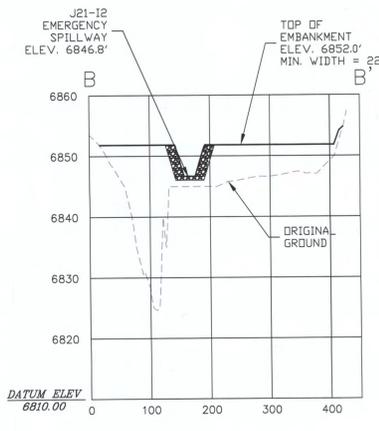
PWCC OSM and COAL LEASE BOUNDARY

PERMIT BOUNDARY

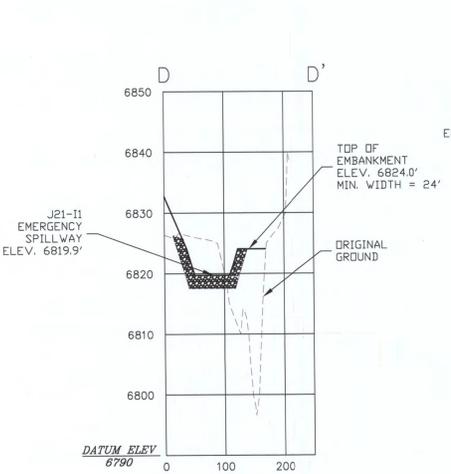
PERMIT BOUNDARY

PWCC LEASE BOUNDARY & AZ-0001E PERMIT BOUNDARY

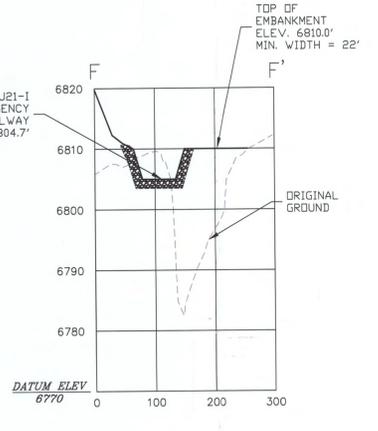
PLAN VIEW
 SCALE: 1" = 100'
 PHOTO DATE: 8/31/2012
 CI = 2' Inside the Ponding Area
 CI = 5' Outside the Ponding Area



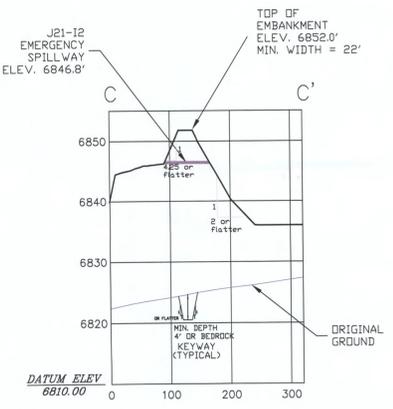
SECTION B - B'
 SCALE: HORIZ. 1"=100'
 VERT. 1"=10'



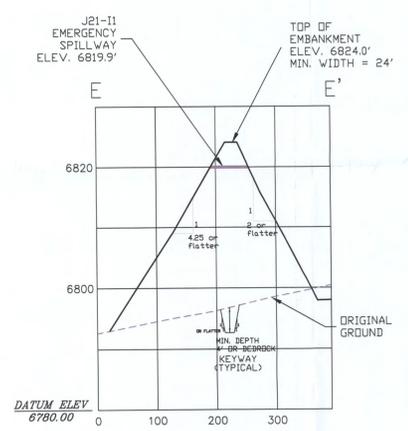
SECTION D - D'
 SCALE: HORIZ. 1"=100'
 VERT. 1"=10'



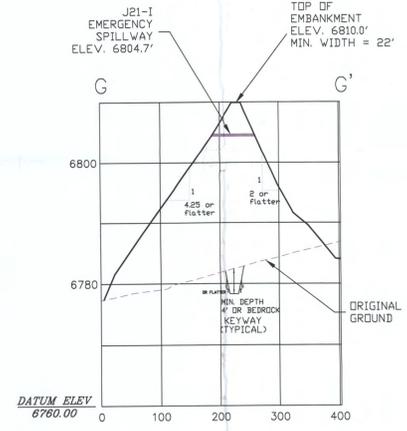
SECTION F - F'
 SCALE: HORIZ. 1"=100'
 VERT. 1"=10'



SECTION C - C'
 SCALE: HORIZ. 1"=100'
 VERT. 1"=10'



SECTION E - E'
 SCALE: HORIZ. 1"=100'
 VERT. 1"=10'



SECTION G - G'
 SCALE: HORIZ. 1"=100'
 VERT. 1"=10'

J21-12 POND STAGE CAPACITY TABLE

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6828.0	0.0	0.00	0.00	BOTTOM OF POND
6830.0	2.0	0.02	0.02	
6832.0	4.0	0.06	0.10	
6834.0	6.0	0.01	0.10	
6836.0	8.0	1.10	1.21	
6838.0	10.0	1.41	3.72	
6840.0	12.0	1.57	6.70	
6842.0	14.0	1.73	10.00	
6844.0	16.0	1.89	13.63	
6846.8	18.8	2.08	19.18	EMERGENCY SPILLWAY
6848.0	20.0	2.29	21.98	
6850.0	22.0	2.55	26.81	
6852.0	24.0	3.00	32.36	TOP OF EMBANKMENT

J21-11 POND STAGE CAPACITY TABLE

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6798.0	0.0	0.12	0.00	BOTTOM OF POND
6800.0	2.0	0.24	0.36	6800.0 INCISED ELEV.
6802.0	4.0	0.36	0.96	
6804.0	6.0	0.53	1.85	
6806.0	8.0	0.67	3.05	
6808.0	10.0	0.80	4.52	
6810.0	12.0	0.94	6.26	
6812.0	14.0	1.09	8.28	
6814.0	16.0	1.25	10.62	
6816.0	18.0	1.42	13.29	
6818.0	20.0	1.58	16.28	
6819.9	21.9	1.75	19.45	EMERGENCY SPILLWAY
6822.0	24.0	1.91	23.28	
6824.0	26.0	2.08	27.26	TOP OF EMBANKMENT

J21-1 POND STAGE CAPACITY TABLE

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6784.0	0.0	0.10	0.00	BOTTOM OF POND
6786.0	2.0	0.29	0.39	6785.0 INCISED ELEV.
6788.0	4.0	0.44	1.12	
6790.0	6.0	0.57	2.14	
6792.0	8.0	0.72	3.43	
6794.0	10.0	0.89	5.05	
6796.0	12.0	1.12	7.07	
6798.0	14.0	1.30	9.49	
6800.0	16.0	1.46	12.24	
6802.0	18.0	1.62	15.32	
6804.7	20.7	1.80	19.94	EMERGENCY SPILLWAY
6806.0	22.0	1.98	22.40	
6808.0	24.0	2.16	26.54	
6810.0	26.0	2.34	31.04	TOP OF EMBANKMENT

I CERTIFY IN ACCORDANCE WITH THE REQUIREMENTS OF 30 CFR 750.16 AND 816.46(b)(3) THAT THE SITUATION CONTROL STRUCTURE WAS CONSTRUCTED AS DESIGNED BY PEABODY WESTERN COAL CO. AND AS APPROVED BY THE OFFICE OF SURFACE MINING, WITH THE EXCEPTIONS OF CERTAIN DIFFERENCES THAT ARE LISTED BELOW:

1. POND STAGE CAPACITY TABLE
2. PONDING AREA SHAPE
3. ELEVATIONS & DIMENSIONS REFLECTED ON THE DRAWING PRIOR TO SITE RECLAMATION.
4. SPILLWAY & TOP OF EMBANKMENT WIDTH IS THE SAME OR WIDER THAN THE DESIGN.

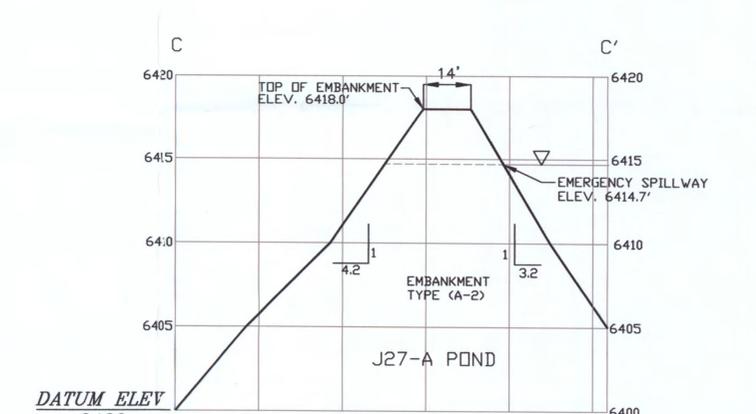
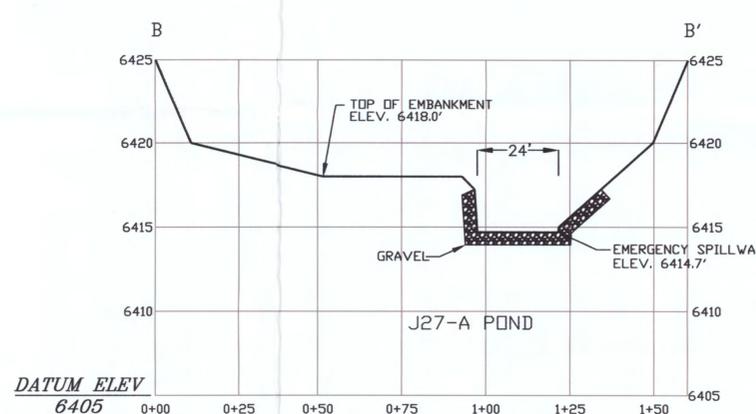
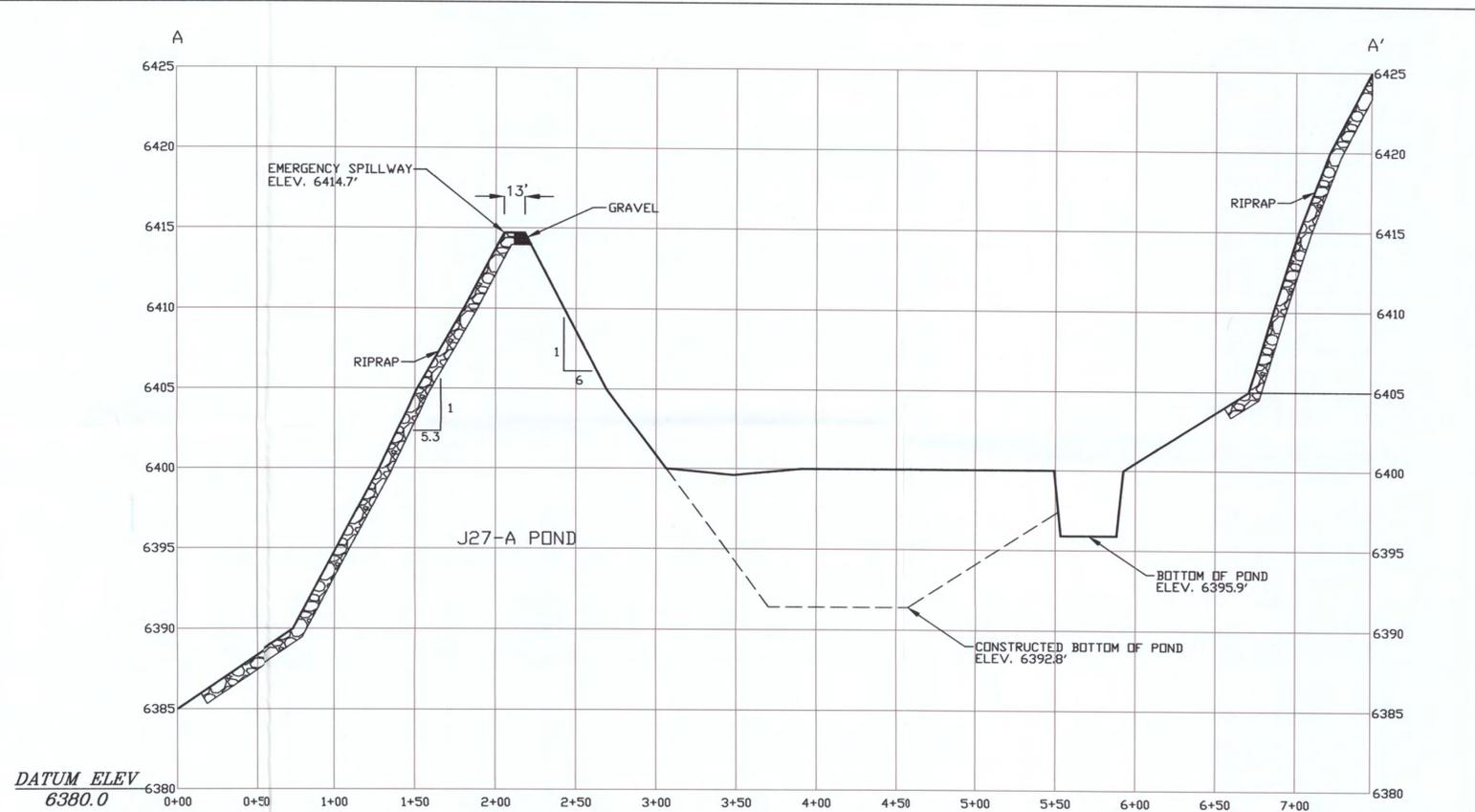
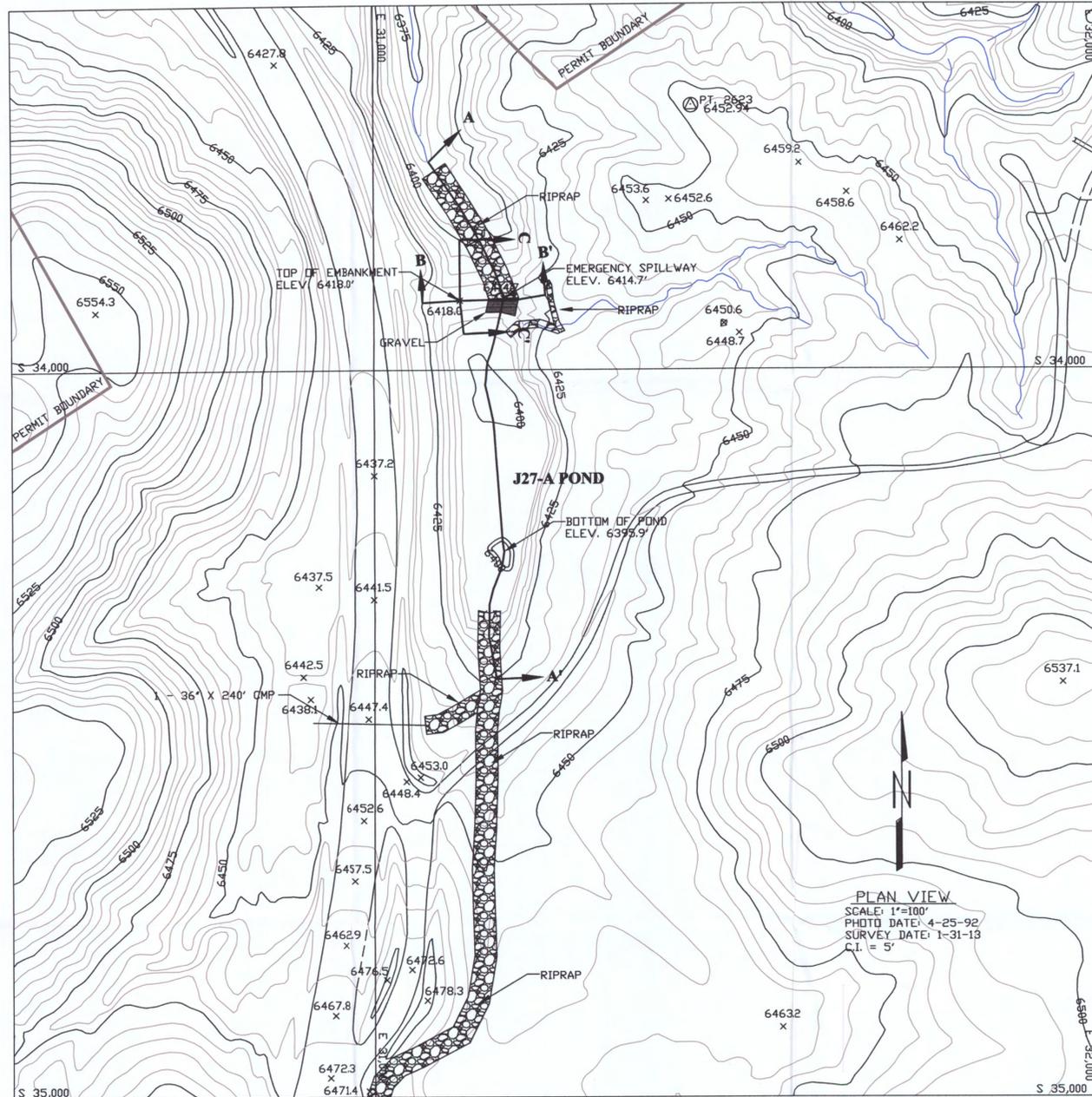
ENGINEER'S CERTIFICATION
 JAMES G. SCHLENOVOT
 Engineering Manager
 Peabody Western Coal Company
 ARIZONA P.E. 18782
 Date: **NOV 05 2012**



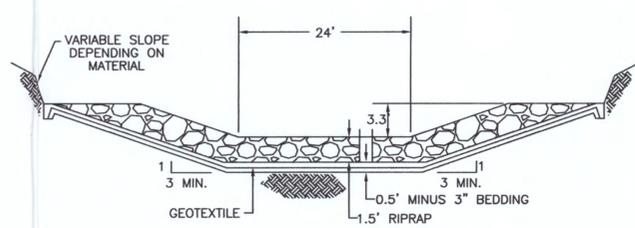
REVISIONS			EXHIBIT #1-SHEET 1 of 2 J21-12, J21-11 & J21-1 SEDIMENTATION POND AS-BUILT	
DATE	CHK'D	DESCRIPTION		

KAYENTA MINE
 PEABODY WESTERN COAL COMPANY
 P. O. BOX 650 KAYENTA, ARIZONA 86033

DESIGNED BY: MW	SCALE: 1"=100'
DRAWN BY: JMB	DRAWING DATE: 11-05-12
CHECKED BY: JGS	PHOTO DATE: 08-31-12
CONTOUR INT.: 5'	DWG FILE: 1104112-J211_3.DWG



J27-A POND STAGE CAPACITY					
ELEV. (FT.-MSL)	STAGE (FT.)	AREA (ACRES)	CAPACITY (AC.-FT.)	TOTAL CAPACITY (AC.-FT.)	DESCRIPTION
6392.8	0.0	0.00	0.00	0.00	CONSTRUCTED BOTTOM OF POND
6395.9	0.0	0.02	0.00	0.00	SEDIMENT BOTTOM OF POND
6400.0	4.1	0.13	0.31	0.31	
6405.0	9.1	0.81	2.35	2.66	
6410.0	14.1	0.99	4.50	7.16	
6414.7	18.8	1.20	5.15	12.30	EMERGENCY SPILLWAY
6415.0	19.1	1.21	0.36	12.67	
6418.0	22.1	1.37	3.87	16.54	TOP OF EMBANKMENT



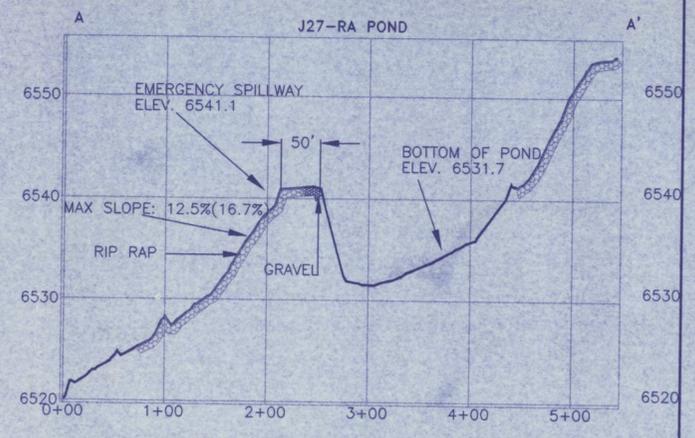
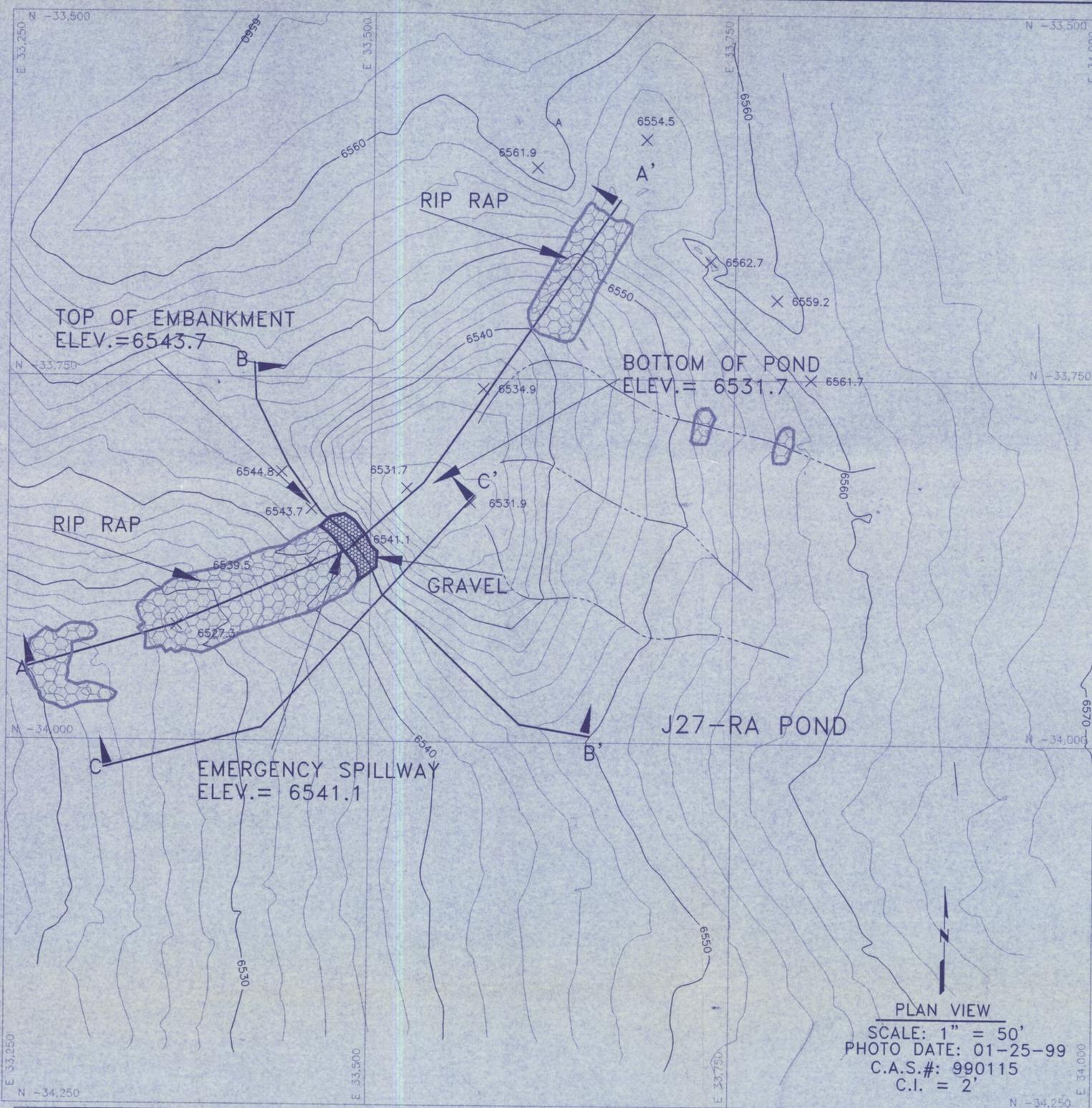
SECTION OF EMERGENCY SPILLWAY
NOT TO SCALE
J27-A POND

ENGINEER'S CERTIFICATION
I certify that this Siltation Structure was constructed in accordance with the approved mining permit and that the information contained herein accurately describes the constructed structure to the best of my knowledge and belief.

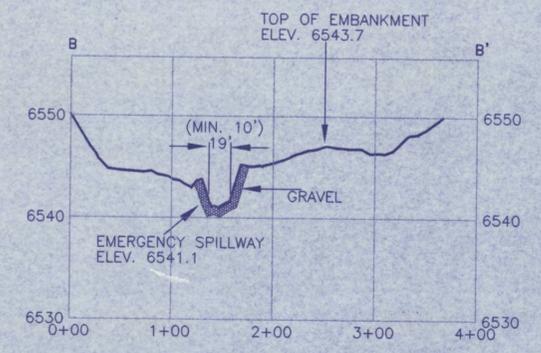


Gary Altsisi
Reclamation Supervisor
Peabody Western Coal Company
ARIZONA P.E. 37842

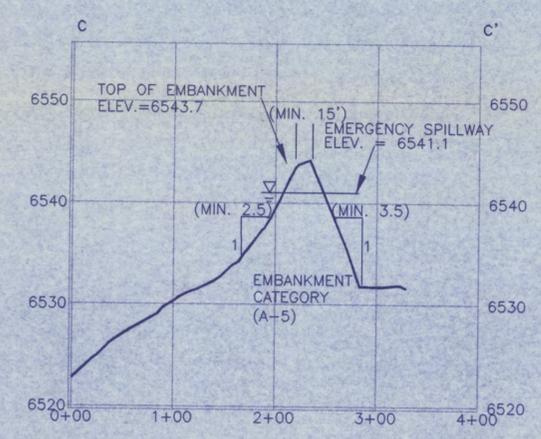
REVISIONS		EXHIBIT #1 J27-A POND (AS-BUILT)
CHK'D	DATE DESCRIPTION	
GA	2/4/13 REMEDIAL WORK	BLACK MESA MINE PEABODY WESTERN COAL P.O. BOX 650 KAYENTA, AZ 86033 DESIGNED BY: G.A. SCALE: AS SHOWN DRAWN BY: G.A. DRAWING DATE: 2-04-13 CHECKED BY: G.A. PHOTO DATE: 4-25-92 CONTOUR INTERVAL: 5' DWG FILE: J27-A AS-BUILT FEB 2013.dwg



SECTION A - A'
VERTICAL SCALE: 1" = 10'
HORIZONTAL SCALE: 1" = 100'



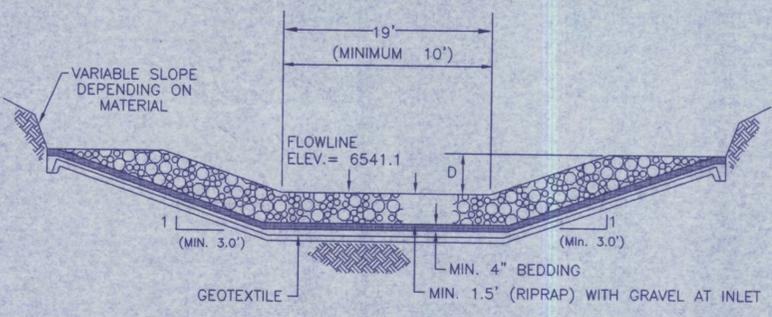
SECTION B - B'
VERTICAL SCALE: 1" = 10'
HORIZONTAL SCALE: 1" = 100'



SECTION C - C'
VERTICAL SCALE: 1" = 10'
HORIZONTAL SCALE: 1" = 100'

J27-RA POND STAGE CAPACITY TABLE

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	CAPACITY (ac-ft)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6531.7	0.0	0.00	0.00	0.00	BOTTOM OF POND
6532.0	0.1	0.07	0.01	0.01	
6534.0	2.1	0.21	0.28	0.28	
6536.0	4.1	0.32	0.52	0.81	
6538.0	6.1	0.41	0.72	1.53	
6540.0	8.1	0.51	0.92	2.45	
6541.1	9.2	0.59	0.61	3.05	EMERGENCY SPILLWAY
6542.0	10.1	0.66	1.17	3.62	
6543.7	12.0	0.81	1.82	4.88	TOP OF EMBANKMENT



J27-RA POND DESIGN
CROSS-SECTION OF EMERGENCY SPILLWAY
NOT TO SCALE

I certify that this Siltation Structure was constructed in accordance with the approved mining permit and that the information contained herein accurately describes the constructed structure to the best of my knowledge and belief.

Professional Engineer
18782
JAMES G. SCHLENOGT
COMPLIANCE ENGINEERING MANAGER
PEABODY WESTERN COAL COMPANY

ARIZONA P.E. 18782
MAR 03 1999
DATE

REVISIONS

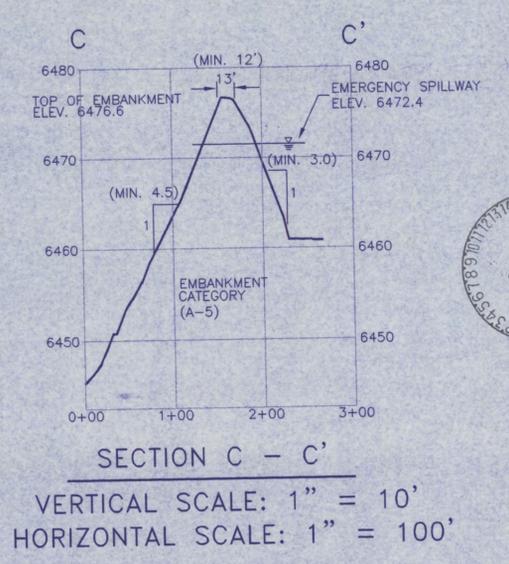
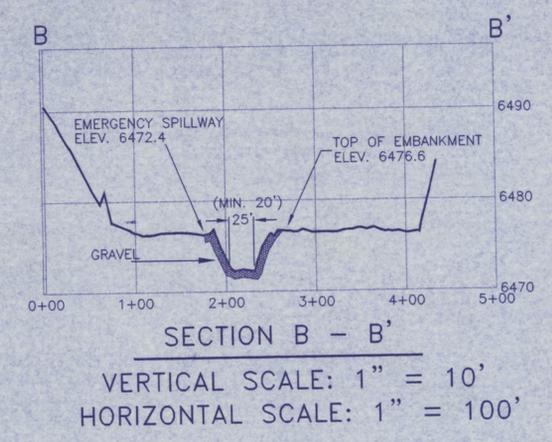
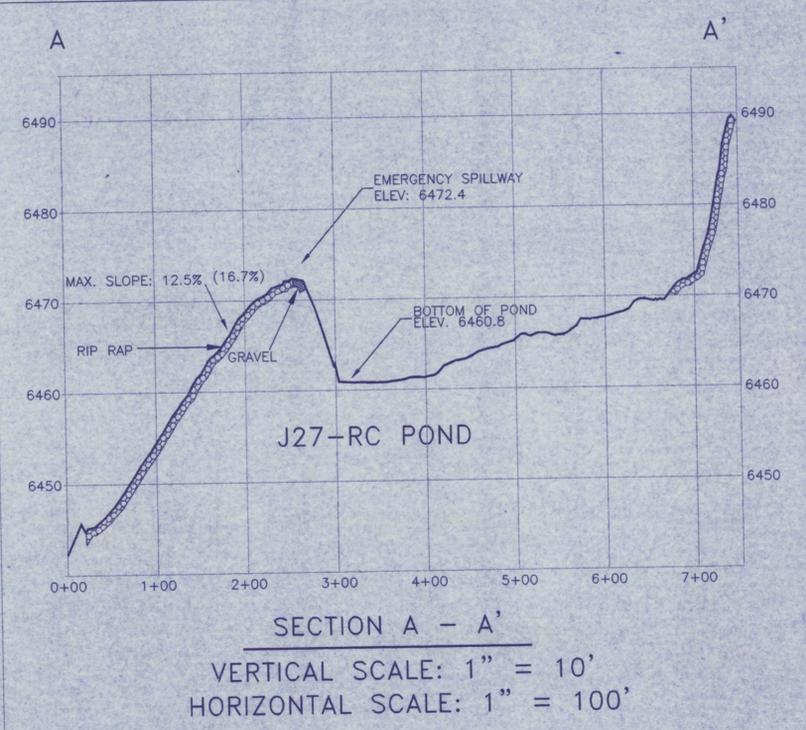
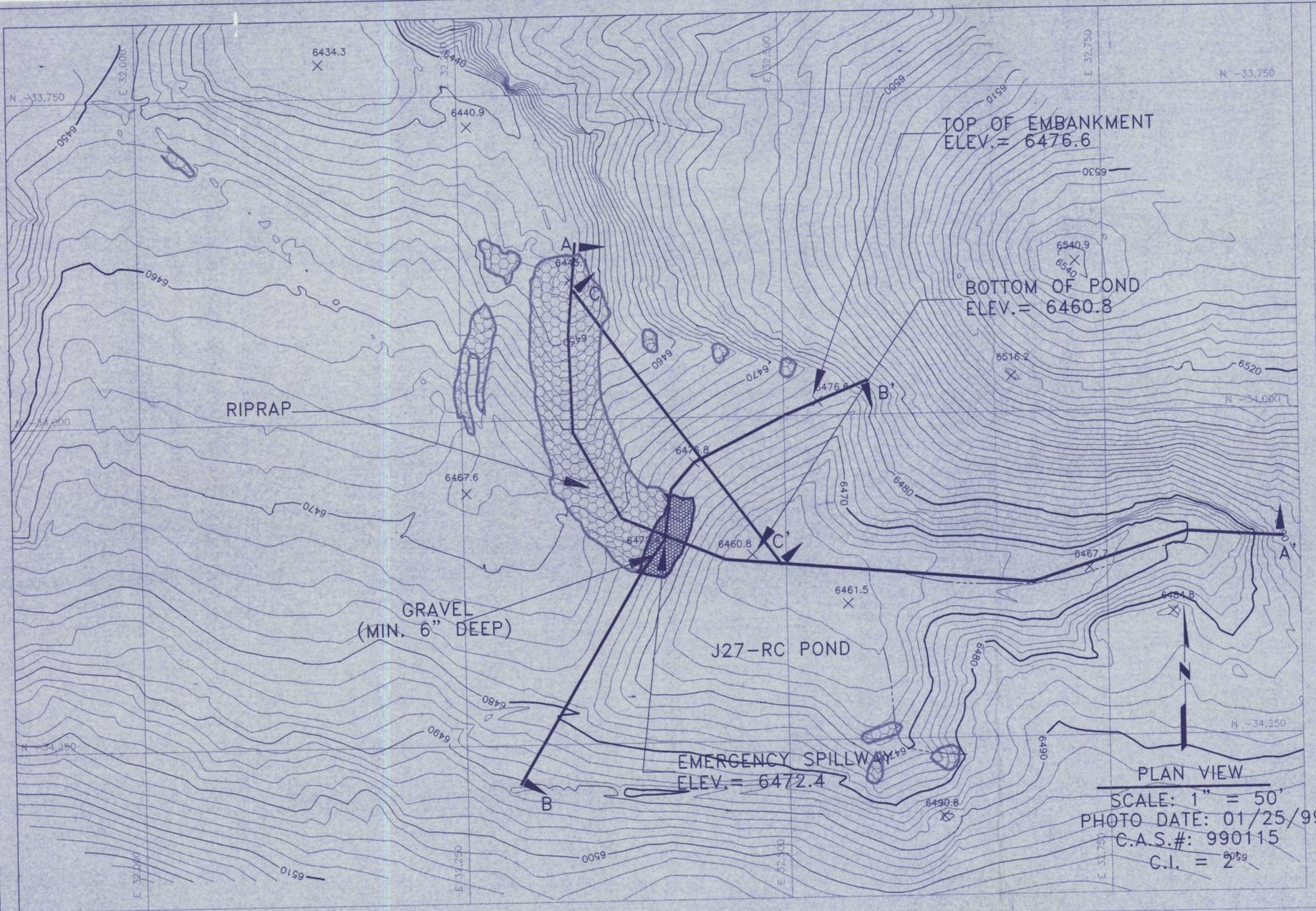
DATE	CHK'D	DESCRIPTION

J27-RA POND
AS-BUILT

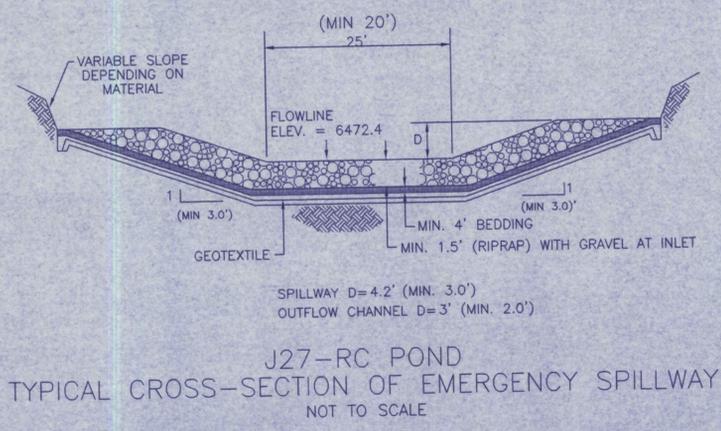
BLACK MESA MINE
PEABODY WESTERN COAL COMPANY
PO BOX 605 KAYENTA, ARIZONA 86033

DESIGNED BY: PWCC
DRAWN BY: E.DICK
CHECKED BY: JGS
CONTOUR INT.: 2'
SCALE: 1"=50'
DRAWING DATE: 03-02-99
PHOTO DATE: 01-25-99
DWC FILE: J27_RADESIGN.DWG





J27-RC POND STAGE CAPACITY TABLE					
ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	CAPACITY (ac-ft)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6460.8	0.0	0.00	0.00	0.00	BOTTOM OF POND
6462.0	1.2	.19	.11	.11	
6464.0	3.2	.42	.61	.72	
6466.0	5.2	.60	1.02	1.74	
6468.0	7.2	.81	1.42	3.15	
6470.0	9.2	1.02	1.83	4.99	
6472.0	11.2	1.22	2.24	7.23	
6472.4	11.6	1.26	.50	7.72	EMERGENCY SPILLWAY
6474.0	13.2	1.42	2.64	9.87	
6476.0	15.2	1.63	3.05	12.93	
6476.6	15.8	1.69	1.00	13.92	TOP OF EMBANKMENT



I certify that this Siltation Structure was constructed in accordance with the approved mining permit and that the information contained herein accurately describes the constructed structure to the best of my knowledge and belief.

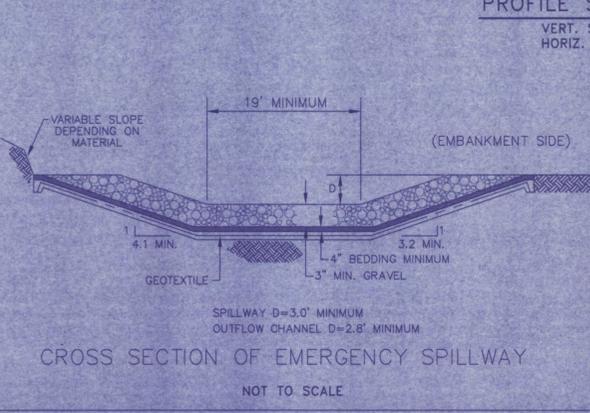
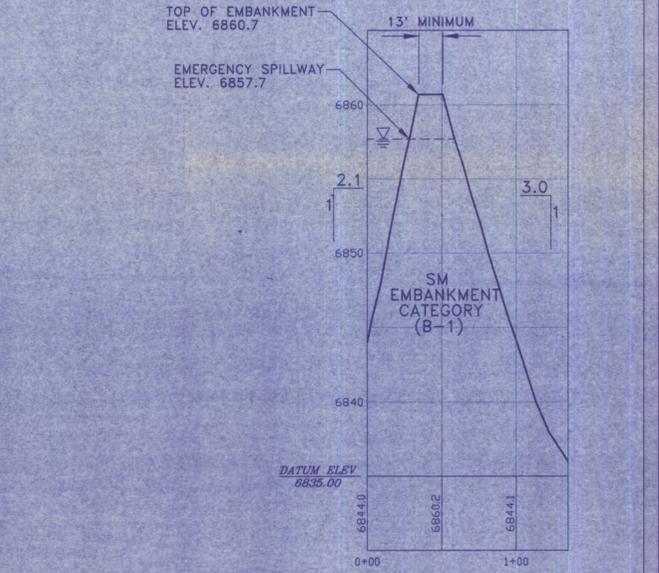
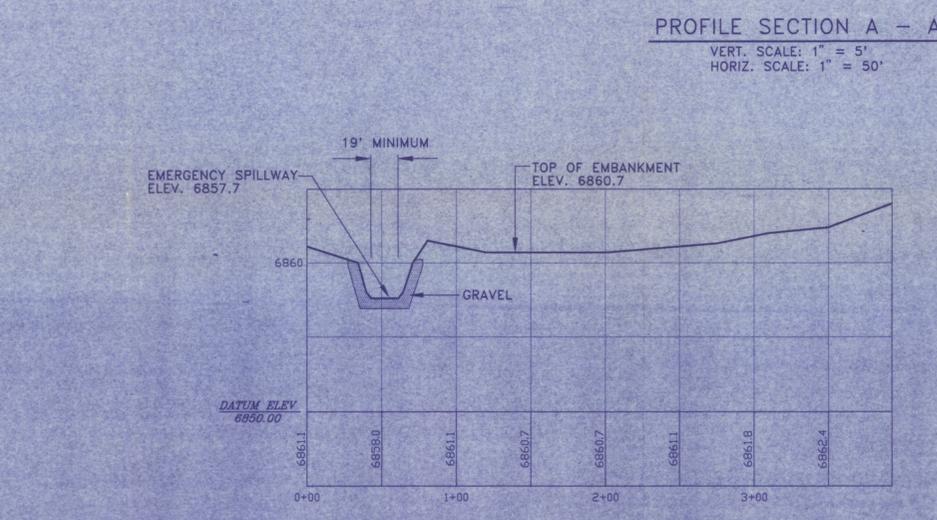
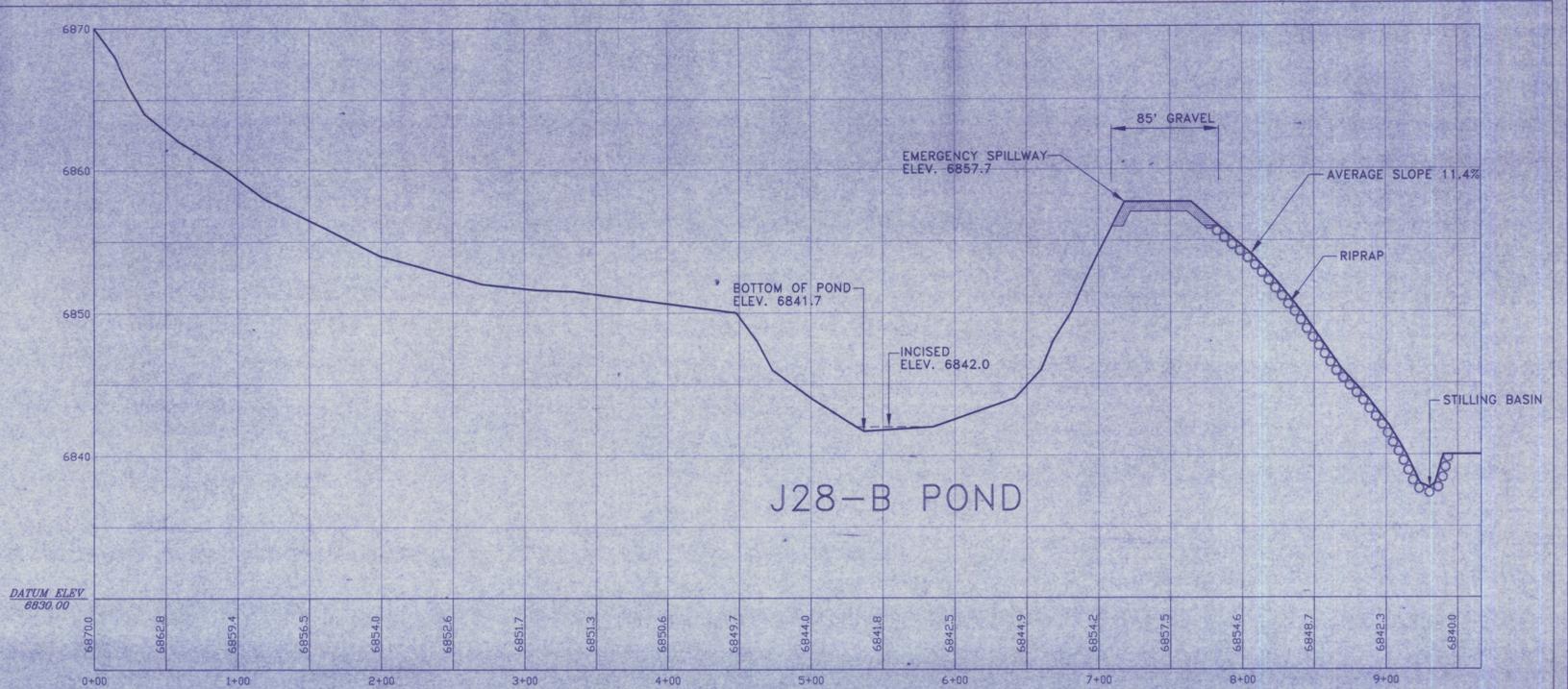
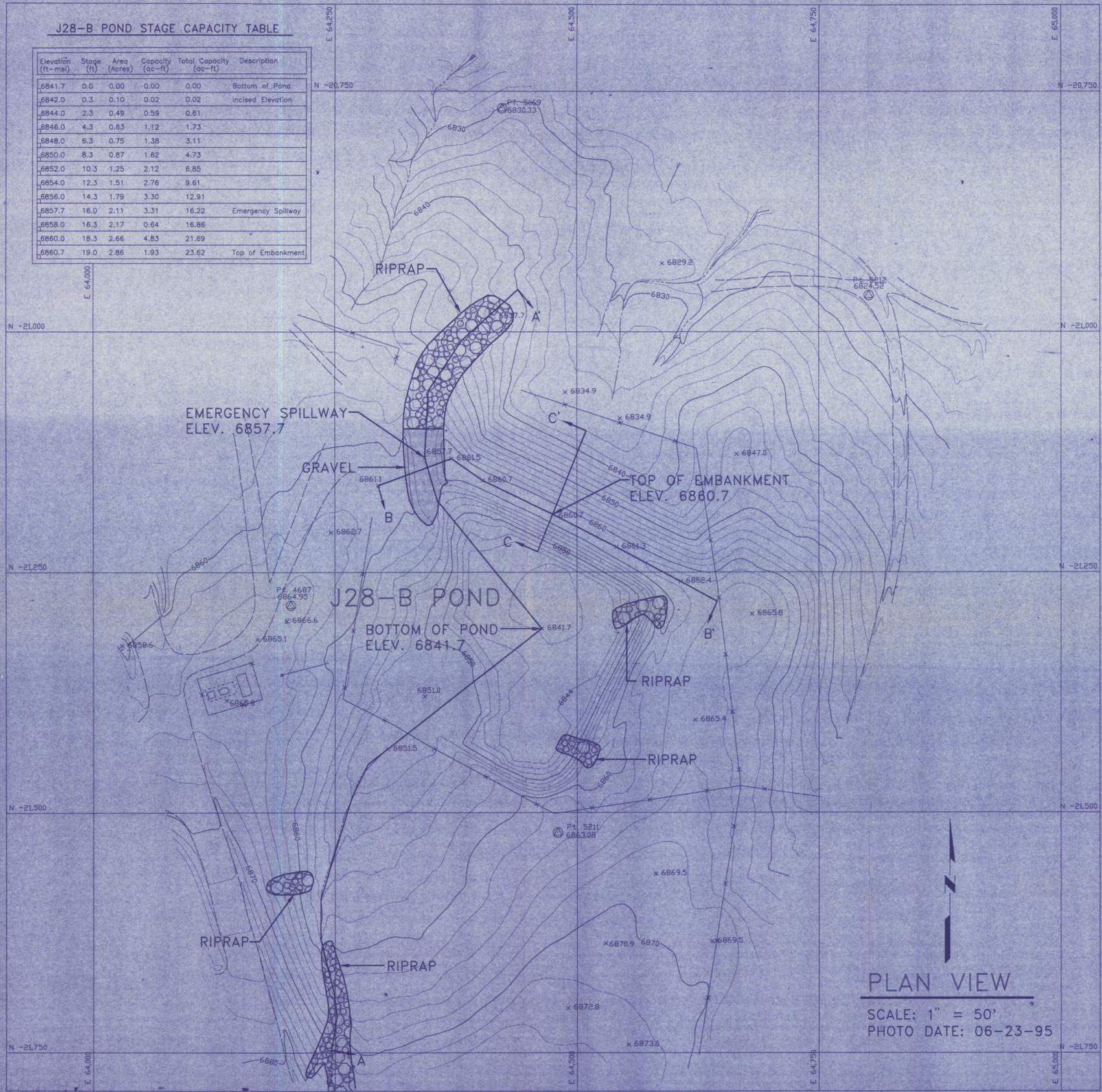
Professional Engineer Seal for James R. Schlenvogt, Compliance Engineering Manager, Peabody Western Coal Company.

ARIZONA P.E. 18782
 MAR 03 1999
 DATE

REVISIONS			J27-RC POND AS-BUILT	
DATE	CHK'D	DESCRIPTION		
			BLACK MESA MINE	
			PEABODY WESTERN COAL COMPANY	
			PO BOX 605 KAYENTA, ARIZONA 86033	
			DESIGNED BY: PWCC	SCALE: AS SHOWN
			DRAWN BY: E. DICK	DRAWING DATE: 03-02-99
			CHECKED BY: JGS	PHOTO DATE: 01-25-99
			CONTOUR INT.: 2'	DWG FILE: J27-RC~1.DWG

J28-B POND STAGE CAPACITY TABLE

Elevation (ft-msl)	Stage (ft)	Area (Acres)	Capacity (ac-ft)	Total Capacity (ac-ft)	Description
6841.7	0.0	0.00	0.00	0.00	Bottom of Pond
6842.0	0.3	0.10	0.02	0.02	Incised Elevation
6844.0	2.3	0.49	0.59	0.61	
6846.0	4.3	0.63	1.12	1.73	
6848.0	6.3	0.75	1.38	3.11	
6850.0	8.3	0.87	1.62	4.73	
6852.0	10.3	1.25	2.12	6.85	
6854.0	12.3	1.51	2.76	9.61	
6856.0	14.3	1.79	3.30	12.91	
6857.7	16.0	2.11	3.31	16.22	Emergency Spillway
6858.0	16.3	2.17	0.64	16.86	
6860.0	18.3	2.66	4.83	21.69	
6860.7	19.0	2.86	1.93	23.62	Top of Embankment



I certify that this Siltation Structure was constructed in accordance with the approved mining permit and that the information contained herein accurately describes the constructed structure to the best of my knowledge and belief.

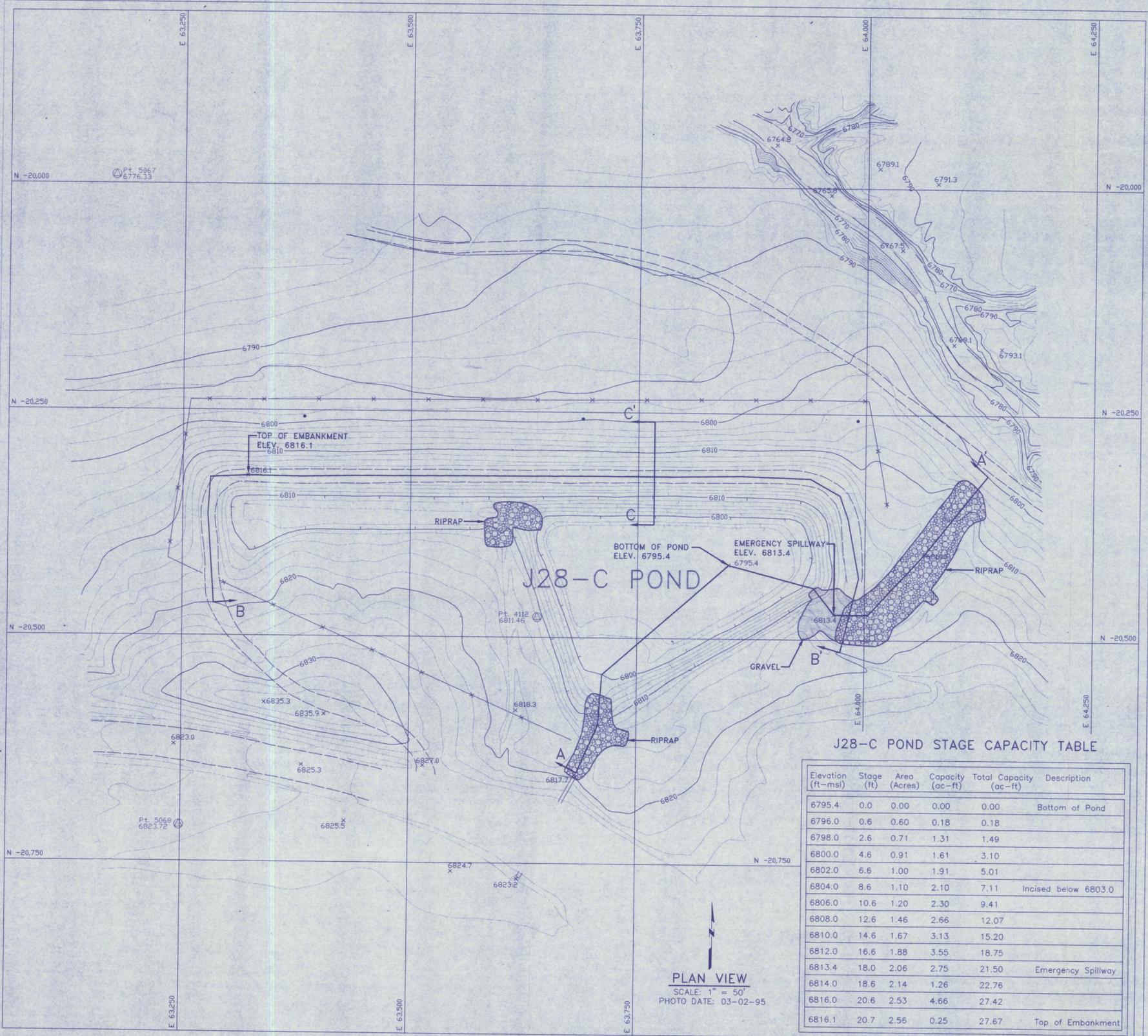


ARIZONA P.E. 15264
11/21/95
DATE

REVISIONS	CHK'D DATE	DESCRIPTION

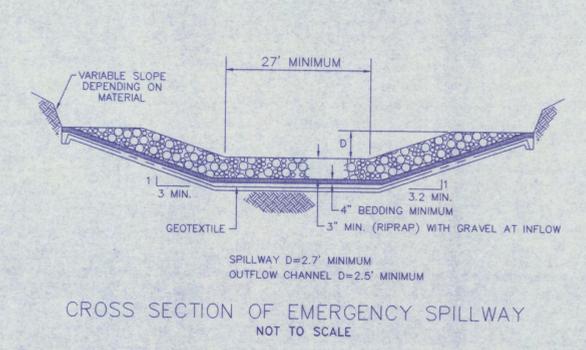
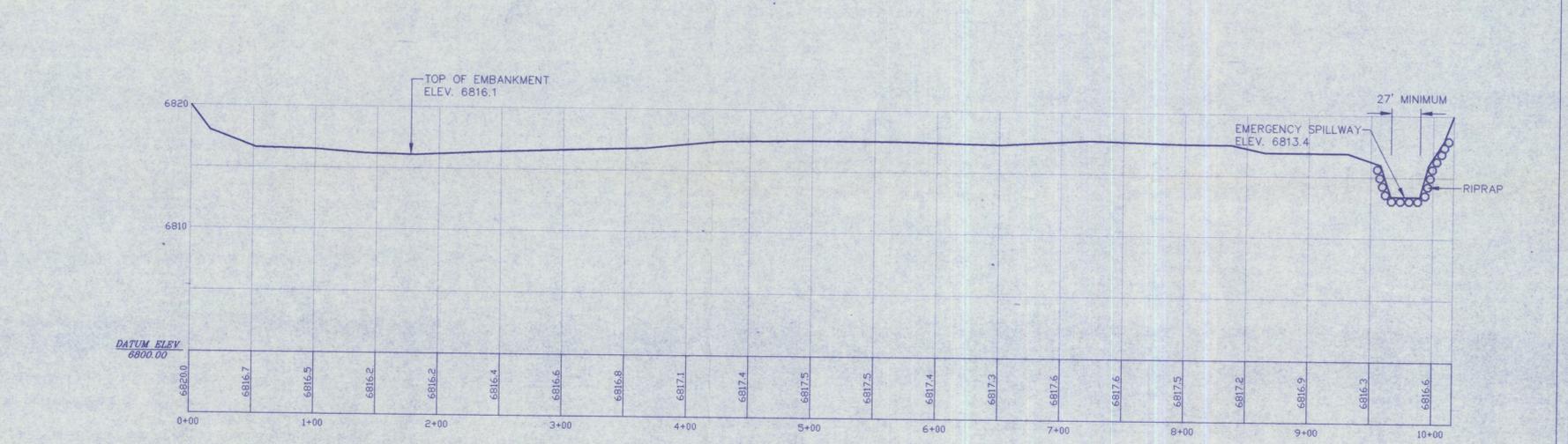
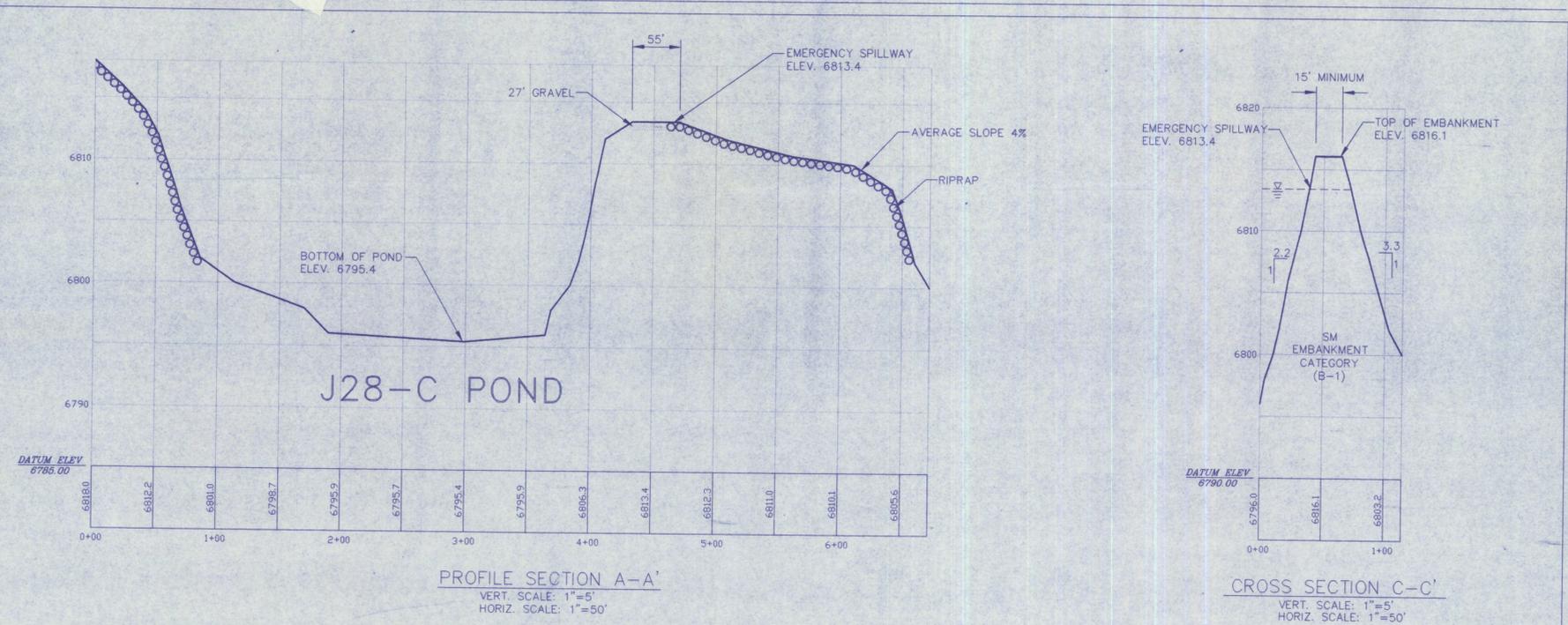
J28-B POND (AS - BUILT)

KAYENTA MINE
PEABODY WESTERN COAL CO. 1300 S.YALE FLAGSTAFF, AZ. 86001
DESIGNED BY: P.W.C.C. SCALE: AS SHOWN
DRAWN BY: E.P.D. DRAWING DATE: 11-28-95
CHECKED BY: R.A.B. PHOTO DATE: 08-23-95
CONTOUR INTERVAL: 2.0'



J28-C POND STAGE CAPACITY TABLE

Elevation (ft-msl)	Stage (ft)	Area (Acres)	Capacity (ac-ft)	Total Capacity (ac-ft)	Description
6795.4	0.0	0.00	0.00	0.00	Bottom of Pond
6796.0	0.6	0.60	0.18	0.18	
6798.0	2.6	0.71	1.31	1.49	
6800.0	4.6	0.91	1.61	3.10	
6802.0	6.6	1.00	1.91	5.01	
6804.0	8.6	1.10	2.10	7.11	Incised below 6803.0
6806.0	10.6	1.20	2.30	9.41	
6808.0	12.6	1.46	2.66	12.07	
6810.0	14.6	1.67	3.13	15.20	
6812.0	16.6	1.88	3.55	18.75	
6813.4	18.0	2.06	2.75	21.50	Emergency Spillway
6814.0	18.6	2.14	1.26	22.76	
6816.0	20.6	2.53	4.66	27.42	
6816.1	20.7	2.56	0.25	27.67	Top of Embankment



I certify that this Siltation Structure was constructed in accordance with the approved mining permit and that the information contained herein accurately describes the constructed structure to the best of my knowledge and belief.

RAYMOND A. [Signature]
PEABODY WESTERN COAL COMPANY

ARIZONA P.E. 15264
5/2/95
DATE

CHK'D	DATE	DESCRIPTION

J28-C POND (AS BUILT)
KAYENTA MINE
PEABODY WESTERN COAL CO. 1300 S. YALE FLAGSTAFF AZ. 86001
DESIGNED BY: P.W.C.C. SCALE: AS SHOWN
DRAWN BY: E.F.D. DRAWING DATE: 04-25-95
CHECKED BY: R.A.B. PHOTO DATE: 03-02-95
CONTOUR INTERVAL: 2.0'